FIFTH NUMBER FOR THE SPRING OF 1833.

Price 50 cents each number, or ONE Dollar per annum.

ATLANTIC JOURNAL

PRIEND OF KNOWLEDGE:

A QUARTERLY JOURNAL OF HISTORICAL AND NATURAL SCIENCES, USEFUL KNOWLEDGE,&c. WITH FIGURES.

BY C. S. RAFINESQUE,

Professor of Historical and Natural Sciences, Member of many learned Societies in America and Europe, Author of many Works, &c. &c.

Knowledge is the mental food of man.

No. 5. Vol. I. PHILADELPHIA, SPRING OF 1833.

119. AMERICAN TRAVELLERS. Who have written their tra- York to Detroit. vels? The Americans are great travellers at home and abroad for pleasure, health, or busi-States and Canada. ness, as settlers, traders, surveyors, agents, missionaries, navigators, adventurers, &c.; but few are qualified to write ern Indians. their observations, fewer still write them.

I have sent to the society of Geography of Paris, a long critical account of all these last perior. from 1820 to 1832, dividing them into 6 series. In general tribes. travels at home or in N. America are the best, abroad the Americans are supercicial, ignorant of languages, and defi- Fragments of his travels in 18 cient in high acquirements. I States-1831. The Mexicans give here an abridgement of it. in 1850.

First Series. Travellers in North America.

Astley, 1824. Upper Missouri and New Mexico.

Atwater, 1831. To N. West. nal. Audubon, 1831. Florida, &c. Catlin, 1852. On Missouri Mexico. to Mandans.

Darby, 1820. From New-

Dunn, 1826. Guatimala. Dwight, 1828. Northern

Flint, 1826. Western States. Hall, 1828. Ditto.

Hunter, 1823. Among West-

James & Long, 1823. Missouri, Oregon and Arkansas.

Keating, 1824. To N. West. Mackenny, 1827. Lake Su-

Morse, 1822, Among Indian

Nuttall, 1821. Arkansas. Poinsett, 1822. Mexico.

Rafinesque, 1818 to 1830.

Schoolcraft, 1821. Mississippi-1823. Illinois, &c.

Silliman, 1820. Canada,-Many excursions in his Jour-

Smith, (Jed) 1827.

Stanbury, 1822. Gr. Lakes.

Residence Tanner, 1830. among N. W. Indians.

Thomas, 1820. To Wabash. China. Williams, 1827. Florida.

Many other travellers have Mpt. seen by me. not yet published their observations, such as Gates, Wyeth, Ware, Cozens, Peale, Mease, &c. or only in Journals, Ga-|vels. zetteers, Maps, &c. Foreign travellers and tourists in N. Africa, his third Voyage. America are not included here, they are mostly worthless, except Weymar, Beltrami, Coxe, Franklin, Bradbury, and a few others.

Second Series. America. Few.

Abbott, 1827. Cuba.

Breckenridge, 1820. nos Ayres.

Duane, 1826. Columbia.

Columbia.

nolds in Chili, &c.

and Pacific Ocean.

Mariner, 1830.

Morrell, 1832. Four Voy-ty or talents. ages. I have analyzed his discoveries.

Paulding, 1831. To Mul-

grave Islands.

Porter, 1822. Cruise. 2d ed. Malta. Stewart, 1827. Havay. -1831. Pacific.

Fanning has promised his Voyages for 1833.

Fourth Series. In Asia.

Mrs. Judson, 1827. Asia: the first American Lady who Greece. has written her travels.

Waln, 1823. Hist. of China. Spain.

White, 1823. Cochinchina. Wood, 1831. Sketch of

Dr. Burroughs to Aslam,

Fifth Series. In Africa. English, 1823. Nubia. Ledyard, 1824. Life & tra-

Morrell, 1828-29. South

Noah, 1821. Barbary. Riley, 1824. 2d ed. of Shipwreck.

Shaler, 1826, Algiers. Ashmun & others have pub-

In South lished fragments on Liberia. Sixth and last Series. In Europe. Many tourists on the Bue- English plan, not worth mentioning, full of blunders. Lyman in Italy, Carter in France Officer, anonymous, 1827. and Italy, are such; they knew not the language of the coun-Others will perhaps publish try! What should we think of their travels. Eights in Pata- an Italian or Russian, writing gonia. Peale, Columbia. Rey-his travels here without speaking the English. In general Third Series. In the Austral tourists are only at home in England. 'Among the crowd Anonymous Sketches of althe following may be distinguished for some merit, novel-

Alden, 1832. Practical tou-

Anderson, 1831. Greece. Bigelow, 1830. Sicily and

Dwight, 1829. Germany. Griscom, 1821. Europe. Jones, 1829. Mediterranean. Webster, 1821. Azores. Wines, 1832. Mediterranean.

Woodruff, 1830. Malta and

Young American, 1828.

Letters from Europe.

Dekay promises a Voyage fact! to Turkey, but he spoke neither Greek nor Turkish, as 121. ALLEGHANIES MOUNusual.

The dates are those of publication.

120. Reward of Merit.

inscription.

cradle of mankind, Asia and slopes and elevations of land. the Imalava.

first instance of such an honor put down at random, at first being awarded to any Ameri-in heaps, laterly in ridges. can citizen, by one of the most Thus was formed the opinion eminent learned Societies; for that all our mountains were a labor at least of erudition in in parallel ridges. the highest branches of histo-ling is more erroneous: Since rical knowledge, philology and nearly all our mountains are ethnography.

Willis is now writing vapid some periodicals have refused even to notice this literary

Physical geography is much C. S. R. neglected in the U. States; lakes and streams must be surveyed and laid out in maps. The beautiful gold Medal but table lands mountains and awarded to Prof. Rafinesque, hills are often altogether omitby the Geographical Society of ted or incorrectly delineated. Paris, has been received with Our first Surveyors began their a Diploma of Merit. It bears surveys in the level atlantic on one side the head of Miner-region, when they came to the va and on the other a suitable hills and mountains they commenly screeyed them by run-This Society is composed of ning lines near them, reducing the most eminent and learned all elevations to flat acres of men of France. They have de-aerial surface instead of terrescided that the question of the trial surface, thus three acres origin of mankind, and the in mountains are often 4 or 5 in black nations is as yet insolu-reality. From these erroneble, owing to our imperfect ous surveys our maps are made. knowledge of many languages; In some maps lofty mountains but they have approved and are not even laid out; thus the rewarded the memoirs and la-Catskill mountains 4000 foot bors of the writer, as one step high, are not found in many towards such a solution, by maps of N. York. Tablelands connecting the languages and and hills were altogether netraditions of all the nations of glected. Thus we bad no corthe world with the primitive rect delineation of our soil,

When mountains were in-It is believed that this is the troduced in maps, they were Yet nothin fact TABLE-LANDS or PLA-

But this kind of merit and TEAUX, rising by successive lofty knowledge is so little un-steps or in some instances ahderstood and valued here, that ruptly, with some ridges and peaks in various places, or in tains, formerly called Talega.

chains or groups.

and it is not shewn whether tour or limits to the North, N. streams run in plains, basins, W. and West. ancient lakes, narrow valleys Thomas had long ago spoken or gullies. years ago, Hutchins surveyed ghanies near lake Erie, 2000 the river Ohio and noticed feet high, but as late as 1832 some features of the valley they were not in our maps! ed to his map, trusting to new tableland, 360 miles wide from gaps, bluffs, lakes, &c. for Susquehannah, Ohio aud, Gegeneral maps.

York and Pennsylvania. He abruptly 4000 feet.

has inserted them in his map of The Mattawan mountains

wi, except in the S. & S. W I Valleys are also neglected, was the first to trace their con-Darby and As early as 70 of the N. W. end of the Alewhere it flows; but later geo-graphers have not even attend-an abrupt rise of the Aleghany flat surveys. In 1818 I sur-lake Eric to the Catskill, and veyed again topographically quite connected in the North; that valley with all its hills, as the rise of the Delaware, Cramer and Spear of Pitts-nessee streams ought to have burg, who paid me \$100 for indicated. Through N. York this labor; but have since re-this tableland sends many sold it to somebody else, and it hilly spurs between the minor has not yet appeared in ourlakes, and has a broad apron or tableland step forming the Mr. Tanner, desirous to im-falls of Niagara and Genessee; prove his great map of the U. while at the falls of the Mo-States, purchased from me last hawk a spur runs out to join year, my surveys of mountains, the Canadian and Primitive spurs, hills, knobs and table- mts of the North. At the N.E. lands, chiefly in the States offend they are called Kiskanon Kentucky, Indiana, Ohio, N. or Catskill mountains, and rise

1832, which if compared with vulgarly called Highlands are the former map of 1830, will primitive, and form a narrow evince a vast difference in phy-broken tableland, cut up by sical geography. He has also the Hudson river, and tideinserted the tablelands and water, with peaks of 1500 feet; mountains of Tennessee, from they run W. and E. and soon the late map of Rhea. And after become the Taconic mts. quite lately the Gold Mines running from S. to N. between Region has called forth a new the Hudson and Connecticut map of Peck, (in Silliman's basins, to become further off Journal) which delineates the the Green mts of Vermont South East slopes of our mts. and the White mts of New We have then now something Hampshire and Maine, 7000 like a correct outline of the feet high, the highest of our contour of our Alleghany moun-mountains, and the primitive

nucleus of all the New England | Kitaniny mountain, which are mountaius and hills.

mountains to return to the Al-Alleghany separated by narleghanies proper, we find them row valleys while the 5th or forming a broad tableland in most easterly is separated by a North Pennsylvania, which broad valley, is of a different gradually becomes broken into and more primitive formation, ridges by the valleys and forming a tableland from ten streams. But the main or to twenty miles wide; it is a middle branch dividing the long spur of the primitive Eastern and Western Waters, Mattawan mountains, called called the Backbone mountain Schooley mountains, in Newis yet a broad tableland in cen-ter county, and gradually ta-Pennsylvania, Blue ridge in pers to 20 and 10 miles breadth Maryland and Virginia; but at the Pittsburg and Cumber-it is continuous only broken land roads; although our maps through by 5 River gaps, alrepresent it as a mere ridge, I though primitive it is much pointed out this error to Mr. lower than the second Allegha-Tanner, but it could not be ny, averaging only 1000 feet map, and thus is there yet!

nah, Juniata, and Potomac ri-rises to 7000 feet in the White vers rise in this tableland and mountains, and at the S. E. to break through these ridges in 4500 feet in the Apalachian many places, forming many mountains, uniting these two successive watergaps, which distant groups by a long nar-were ancient outlets of moun-row band or chain. tain lakes according to Vol-ney's theory, but as no fossil or three smaller ranges of hills remains of fresh water animals forming as many steps and are found therein, it is very chiefly primitive; they bear probable that they were inland many different names from New seas and gulfs of salt water Jersey to Georgia, Pigeon hills when the Atlantic States were West of Susquehannah, Monunder water. The hudson ba- ocacy in Maryland, Bull hills sin above Newburg was also in Virginia, Yeona and Hope such an inland sea. All the fos-hills in Carolina and Georgia, sils of these inland seas are ma-|yet they are consimilar forming rine exuvia of very ancient date chains broken by the streams. with a few diluvial remains.

this Aleghany tableland are to the ends. the east, 1 Turtle mt, 2 Side- In a N. W. direction from

from 5 to 10 miles broad and But leaving these Northern properly paralell spurs of the conveniently corrected in his or one half of the average of the Alleghanies, yet it must be re-The Delaware, Susquehan-collected that at the N. E. it

and average 500 feet in height, The principal ridges skirting but more to the N. and S. at

ling mt, 3 Tuscarora mt, 4 Philadelphia to Lake Erie,

by the valleys breakings.

mountain is the Laurel moun-tains, the least known of all broad, next the Chesnut hills, pant to explore; they are rephilly broken region 200 or 300 running East to West, but are miles broad North of the Ohio probably also a tableland with river extending spurs through aprons and spurs, giving rise Ohio called Scioto hills forming to the river's falling in the gulf the Silver hills of Indiana, the of Mexico. Their structure and separated from the the Ozark they are deemed secondary and mountains by the Mississippi filled with fossil remains to the

of the Cumberland mountains, of peaks. and of the same geological It is very remarkable that structure slaty and grity.

a broken ridge ending at the many rivers forming the Ken-Ohio, and South a broad table-haway and Tennessee.

many more mountains, ridges West a spur called the Buffalo and table lands are found with hills, dividing the waters of the peculiar names, being formed Cumberland and Tennessee rivers. South of the Tennessee Westerly of the Backbone river are the Apalachian mountain or ridge 7 to 15 miles our mountains, and which I or ridge, after which comes a resented as a winding ridge Wabash hills of Illinois, and geology is hardly known; but valley and gap of Girardeau. West in Alabama and Missis-South of the Ohio river in sippi, while they meet in Geor-Kentucky is a large hilly table gia, by the Lookout mountains land, called Knob hills or Wa-with the primitive Cheroki sioto of the Indians, uniting mountains at the head of Cuza with the Scioto hills at the Sci- or Coosa river, these last are oto river, with the Silver hills here very lofty 4500 feet high, at Salt river, and with the Wa- yet called the Blue ridge on its bash hills below the Wabash South West end, but are the river. This range or table-end South East of the Alleghaland is very irregular and I nics collectively. This long have traced it throughout in East ridge is very winding Tanner's map, the height over through the Carolinas and Virthe low lands or limestone ginia, unbroken by rivers, explains, varies from 200 to 500 cept by James' river near the feet, or higher still East when Otter Peaks, the Central knot called Pine mountains. It is of this primitive chain. It has properly a spur 400 miles long many other chains and groups

S. of James' River, this chain The Cumberland or Wasioto becomes the loftiest, and dimountains fill the whole of vides the Waters of the Atlan-West Virginia, giving rise to tic and Ohio basin: while the many rivers. It is properly a secondary Alleghany ranges Plateau or the Western step of westerly becomes lower and the Alleghany, forming North broken by the water gaps of the

land in Tenessee, sending This is a peculiar feature of

these mts in direct contradic-1500 miles long from N. E. to tion with the northern features S. W. and very unequally Another is found in the Unaka wide, with all the geological mts. (dividing N. Carolina from formations among them. Tennessee) forming a narrow There is nothing exactly winding ridge 4000 feet high, like elsewhere in the world: primitive on the eastern slope the Pyrenees, Apennines, Carand secondary on the western pathian, usually compared are primitive are E. of it and W. and configuration. Therefore high.

of Unaka mts are 3 ranges of alogist, botanist, and philosomts between the branches of pher. I mean to explore them the Tennessee river. 1. Chil-every year over again. Their howi 2500 feet. 2. Bay 2100 valuable mines of coal. iron, feet. 3. Clinch 2200 feet. and gold, &c. begins to draw the atlastly comes the Cumberland tention of many; but I will seek mts 1800 feet, which by Wal-there the unexplored fossils, den mt to the N. and Lookout flowers, animals and precious

water gap. these ranges in Virginia, be- to add to general knowledge. tween the stream of the Poto- Is it not strange that while mac and Kenhaway branches; our political geography (which but they are mere continua- is fluctuating every year) is so the Iron mts, and S. of James' maps are needed every year to explained.

Thus far from the Alleghanies being a mere bundle of parallel ridges as geographers and geologists have supposed The nations dwelling in Authrough false surveys, we find stral America were thus nicklands, peaks, hills, groups, ing hoof paw. For 312 years

slope. The Cowita mts also totally different in structure of the Blue Ridge, 3000 feet these interesting mts demand the utmost attention from the In east Tennessee or west geographer, geologist, minermt S. form the great Tennessee stones which I know they contain: taking maps and surveys Many names are given to of remote valleys and ranges

tions. The Unaka mts become much attended to, altho' new river head, connecting trans- show new counties and towns: verse chains, bind and blendiphysical geography, which if together the primitive and once well drawn, would be secondary ranges in a very cu-forever permanent, has been rious way not yet geologicaly so utterly neglected, or so long improperly understood?

C. S. RAFINESQUE.

122. THE PATAGONS.

them a vast and lofty mass named by Magellan, in 1520, of mingled mountains, table- from two Catalan words meanknobs, spurs, steps, aprons, past, they have been the subslopes, winding chains and ject of romances, fables and some parellel ridges: nearly systems. All the nations S. of

Buenos Ayres have been deem-|reduced to 3 real nations; 1. ed Patagons, altho' stated by The Aucas or Chilians, 2. the others to consist of several na- Puelches or Talahets, S. Cunis tions and tribes, different in size, or Poyas, which are all inticomplexion and language.

of giants and lately even a pe- All have been called Pataculiar species of man! while gons by some travellers, but others deny their great size the original Patagons of Maand even their existence! It gellan are only one of these would be tedious to enumerate tribes, called Tinguis, Tiniall the various false opinions to guis, Tinguiches, Guidiches, which they have given rise.

Patagons only a branch of the whence they ramble in summer

tall size.

But even this system is erro-Statenland, which do neous, because the languages speak Chilian. and complexions of the various

critically the accounts of fifty tombs, skeletons of 7 to 8 feet. travellers and historians, I The vocabulary of Pigafetta have ascertained many tribes is of the utmost historical imin Austral America, which portance. It has enabled me shall be distinguished and de- to trace the origine of these scribed in the first vol. of my Patagons, since I have detecthistory of America (upon Aus- ed in it 81 pr cent of analogy tral America.) They may be with the Cairi of Trinidad Id.

mately connected altho' di-Many writers call them a race vided into 30 or 40 tribes.

Keyus, Tiramenets, Capacs, &c. Molina and Falkner's more by various authors, anddwelrational belief deserve alone ling near the strait of Magelattention; they deemed these lan to the Western side, from Aucas or eastern Chilians, who to the Eastern shore. They are known to be often of a very belong to the Poyas nation extending from South Chili to

Capt. Morrell appears to be Austral tribes, were not well the last traveller who has seen attended to. Yet Pigafetta the these true Patagons in 1823 historian of Magellan voyager and 1826; but without knowing gave a vocabulary of the true them as realy such. By 5 words gigantic Patagons, and de-of their language mentioned scribed them as tall men 7 feet at random they are the same high of a yellowish complexion, as those of Pigafetta. Such as painting their bodies and wear- God Setedos M. Setebos of P. ing skin mantles. While the &c. He visited two of their Aucas or eastern Chilians of villages on the R. Capac, lat. the Andes altho' often nearly 52 and 53, of 4000 and 2000 as tall are of a different com-population. Their complexion plexion and language, do not is pale yellow, they paint, wear paint and wear woollen pon-skin mantles, and thus are like those of Pigafetta. The tallest By comparing carefully and was 6 feet 4, but he saw in

and 77 per cent with the Taino 123. N. G. CAULOMA. Raf.

have overspread South Amer-tucky, deemed then doubtful, ica to the very end, altho' it seen again in 1823 and ascermay be one of the last come tained to be a peculiar G. near from the East, since nearest to Rudbeckia and Sarcheta: the to the Atlantie shores, and name means edged stem. with striking philological an- CAULOMA. Perianthe in doualogies with the ancient na- ble series 12 parted, Phorantions of Europe and North Af- the convex, with biform chaffs,

the Caribs, they were mingled pressed naked, no teeth. with them in Guyana, Columbia and Brazil, under many gate simple, angular winged, names; even the Taos or Chiquitos of Chaco appears to remote decurrent, lanceolate languages with the Taino.

early civilized were also a kin rays yellow lanceolate. to them, since they have 62 A singular plant 1 or 2 feet

The other nations of South America with 50 per cent and 124. Principles of the Philosoupwards analogy with the Pa- phy of new Genera and new tagons are,

Darien 68 per cent. Mbaya 64 per cent. Lule and Vilela 50.

rasca 50 &c.

absurd and erroneous is the experience and researches ever opinion that American lan-since have confirmed. guages have no mutual affini-truth is that Species and perties, and that the Patagons are haps Genera also, are forming a peculiar species of gigantic in organized beings by gradual men.

of Hayti in the 16th century, This is a fine N. G. of radiboth spoken by Aruac nations. ate plants, discovered in 1818 This fine nation seems to in the barrens of West Ken-

external flat membranaceous, The Aruacs were spread internal linear carinate, amover all the West Indies, except plectens, thick above. Rays 12 where driven off by their foes|bidentate. Seeds oblong com-

have been a branch, since they rhomboidal, tomentose, end serhave 80 per cent analogy in rate acuminate: flowers terminal glomerate subsessile tomen-The famous Muhizcas so toes, perianthe lanceolate acute,

per cent analogy with the Tao, high, entirely wooly, blossom-67 per cent with the Patagon. ling in June and July.

> species of Plants and Animals.

Extract of a letter to Dr. J. Torrey of New York dated 1st While in North America we Dec. 1832.... I shall soon come find the Mayan, Chontal and out with my avowed principles Poyais each 60 per cent. Ta- about G. and Sp. partly announced 1814 in my principles Thus becomes evident how of Somiology, and which my C. S. R. deviations of shapes, forms and

part of the great universal law the plan that I trace. of PERPETUAL MUTABILITY in

every thing.

reproduction. means exist to ascertain it: his-comparison will shew. tory, locality, abundance, &c. Crinum Americanum. Descr. This view of the subject will set- of L. leaves oblong carinate untle botany and zoology in a new dulate, bipedal, very broad. way and greatly simplify those Scape compressed, flowers velsciences. varieties of men, monkeys, ments uncinate reflexed. will multiply as they do in ments erect not uncinate!!!tion by a kind of genealogical thick leaves, a scape, a multiorder or tables.

I live and after publishing all ceruleum Raf; but it is not, havmy N. Sp. will be on this, and ing unequal stamina, &c. the reduction of our Flora from Linneus was apt to form his

organs, taking place in the 8000 to 1200 or 1500 primitive lapse of time. There is a ten-Sp. with genealogical tables of dency to deviations and muta. the gradual deviations having tions through plants and ani-formed our actual Sp. If I canmals by gradual steps at remote not perform this, give me credit irregular periods. This is a for it, and do it yourself upon

Thus it is needless to dispute 125. N. G. SCADIANUS. Raf. and differ about new G. Sp. and A beautiful liliaceous plant varieties. Every variety is a of Louisiana, with splendid deviation which becomes a Sp. umbella of azure flowers, has as soon as it is permanent by long been know in our gar-Deviations in dens near Philadelphia and our essential organs may thus books of botany as the Crinum gradually become N. G. Yet Americanum; which I have lateevery deviation in form ought ly ascertained to be very differto have a peculiar name, it is ent from that South American better to have only a generic plant, and it is now astonishing and specific name for it than 4 to me how it could have been when deemed a variety. It is thus misnamed, since it is not not impossible to ascertain the even a Crinum; but a N. G. and primitive Sp. that have pro-totally distinct from the plant duced all the actual; many of Linneus, as the following

The races, breeds or lowish white, fragrant, seg-

dogs, roses, apples, wheat Our plant, thus wrongly called and almost every other genus, by Pursh, Nuttal &c, has leaves may be reduced to one ora few ligulate flat, acuminate, pedal, primitive Sp. yet admit of sev-breadth uncial. Scape round, eral actual Sp. names may and flowers blue, inodorous seggeography and history by time Thus not a single character and changes, but they will be is alike. What they have in reducible to a better classifica- common is merely a large bulb, flore umbel, &c. If it is to be a My last work on Botany if Crinum it must be called Cr.

has done so here. His G. Cri-nearly obtuse, first spire with a num contains 3 or 4 separate|transversal angle-shell about G. The C. nervosum must one inch long, whitish semiform the G. Stemonia by un-transparent, brittle. guiculate filaments and polyph-yllous umbel. L'Heritier has shell oval opening nearly round made the G. Agapanthus with lips not quite joined, the inter-Cr. africanum. Others are re- nal covering a small spiral omfered to Amarylis and Heman-bilic .- Therefore and thus define it.

bus equal campanulate, six fid, with many small prominent segments canaliculate, 3 broad-transversal strias.—One inch er obtuse, 3 narrower acute. long or less very pretty. Stamens, 6 unequal curved fili- 3. Diplicaria. Shell oval, form. Pistil oblong, free. Style opening oval, columella broad-

& Agapanthus.

This plant gave rise to D. bonariensis, Raf. Oval ob-another singular blunder. It tuse smooth olive color with 2 Orleans, and is called Blue inch. Squill, whence it was mistaken for the true Squill or Scilla 127. On 5 New Fresh Water maritima and collected as such! Shells, of Bengul and Assam but was found more suitable to adorn gardens than pharmacies.

126. On 3 N. G. of Land Shells Prof. Green, where they are not hollow, opening hardly oblique. labelled, and who permitted me Size above half inch. to describe them.

shell conical, opening oval swelled before, olivaceous acute, end rounded, columella with narrow spiral brown twisted with a tubular ombilic. bands .- Size about one inch It differs from Agathina by the long. columella and ombilic.

genera on a single Sp. and re- S. bonariensis, Raf. or Ag. fer others by mere habit. He bonariensis, Raf. Six spires tip

I propose to call this from Cyclostoma and Paludina.

Scadianus meaning blue umbel, St. elegans, Raf. (or Cyclostoma) oval with 5 spires, white, Corolla with tube oblong, lim-lend nearly obtuse yellow, spires

filiform streight, stigma simple. ly plaited with 2 folds or thick Compare this with Crinum oblique ribs .- Near Voluta and Torticella, but not marine.

grows in the marshes of New spires only-small shell of half

in Asia.

They have been collected by Dr. Burroughs and are in my cabinet.

1. Planorbis albescens, Raf. from Buenos Ayres in South nearly smooth whitish flattened America. By C. S. Rafinesque. on the right side with 3 raised They are from the cabinet of spires, only 2 on the left in a

2. Paludina vitula, Raf. 1. Siphalomphix, Raf. N. G. oval conical acute, 5 spires,

3. Paludina fragilis, Raf.

smooth brittle, of a uniform evinced how much may be dark or pale horny color .- achieved in various Countries

Smaller than the last.

long, brown, seven spires, to set on foot exploring Joursomewhat tesselated by prom-neys in our own country: these inent ribs and small spiral I might perhaps join. We have strias, about one inch long, I many private Explorers now, have S varieties. 1. first spire Audubon, Leitner, Conrad, &c. with duplicate strias-2. do. beside myself, who collect for single strias, knoby tesselate sale or museums. Florida, Alashorter. 3. do. strias nearly bama, Texas, New Mexico, obliterated. Are they different the Apalachin, Ozark, and Or-Sp?

ongate, olivaceous brown, 7 or kind. 8 spires, all with regular angular ribs lengthway, the first spire with a spiral angle endinch, from the river Ganges.

The hints in No. 1, of this overcome them if he can. such a voyage of Natural Sci-scientific if possible. prise. Captain Morrell's voy- of this year.

oval swelled acute, 5 spires, ages lately published have with little means.

4. Melania tessula, Raf. ob- It would even be worthwhile egon mts would above all re-5. Melania costula, Raf. el- ward well future labors of this

NOTICE.

The second year of this ing at end of opening. Over 1 Journal is begun rather under discouraging difficulties, which might warrant its suspension; COMMERCIAL ENTERPRISE. but the editor is determined to Journal on Scientific Voyages stead of enlarging the size he have not been thrown in vain. is compelled to reduce it, al-Dr. Burroughs is gone on though the price must still be another voyage of trading and One Dollar per annum; but half collecting Natural objects in of this has been found to go to-South America and Ching -- wards the postage-taxes of Other similar voyages as con- Editors, the same on Journals nected with Sealing are prepa- of \$ 1 as on those of \$ 10. The ring in Baltimore Albany and supporters of this Periodical elsewhere. I was applied to having chiefly been Scientific from Albany, to go and direct men, it shall be made still more

ences, which I have been com- Those who paid \$2 in adpelled to decline, as I had sta-vance in the expectation of an ted I only claimed the merit of enlarged Journal, will be satdrawing the attention on the isfied by the additional present subject, and would confine my of a Work of the Editor's, future travels and discoveries who offers them his thanks for on dry land; but have recom-their support: his other friends mended to employ young natu- he hopes will enable him to ralists or Students, some of complete a volume at least of whom have applied to me to go this repository of Science and on such an honourable enter-facts, by sending him the rate

Account of the Botanical Collections of Professor C. S. Rafinesque.

I began to herborize and collect plants in 1795, when a child. In 1815, I lost by my shipwreck all my early herbals of Europe and America, made during 20 years, among which a superb herbal of Sicily of 2000 species and 20,000 specimens. In 1816 I began over again in N. America, and have collected in 18 States and Canada during 16 years, have received besides, plants from all the States and Territories, from Missouri, Oregon and Texas, to Florida, explored our botanical gardens and public herbals, and exchanged with European botanists.

My own herbals contain now about 4200 N. American species, 5000 varieties, and 25,000 specimens, nine tenths of which have been collected by myself, and after exchanging or selling already 10,000 specimens. My foreign herbals contain about 3,000 species and 8000 specimens from Europe, Asia, Africa, Polynesia, South America and Mexico. I have travelled for this nearly 15,000 miles, of which 5000 as a pedestrian botanist over N. America. My plants are chiefly phenogamous.

Those who have added to my N. Amer. herbals, are 1. Ladies: Miss Jane Short, Mrs. Mary Holley born

Austin, Mrs. Wallace, Martin, Betton, &c.

2. Professors and Doctors. Drs. Torrey, Short, Miller, Ward, Crockatt, Hart, Macwilliams, Brereton, Mease, Brickell, Mitchell, Eddy, Crawford, Locke, &c.

3. Botanical Authors. Bradbury, Lewis, Beck, El-

liot, Conrad, Halsey, Eaton, Muhlenberg, &c.

4. Gentlemen or Gardeners, &c. Gaissen, John C. Short, Ridgely, Hingston, Robert and John Carr, Steinhauer, Booth, Macarran, Knevels, Shultz, Waterhouse, Adlum, Forrest, Durand, Walton, Limner, &c.

Those who have added to my exotic herbals, are

Decandolle, Moricand, Trattenick, Sieber, Bory, Hooker, Swainson, Sheperd, Romer, Shultze, Carr,

Lesueur, Biyona, &c.

Those who have bought or received some of my plants are, Decandolle, Moricand, Torrey, Collins, Elliott, Maclure, Radi, Savi, Swainson, Bory, Vandermalen, Agardh, Schreber, Arnott, Hooker, Bastard, Lanthois,

Muhlenberg, Schweinitz, Conrad, Carr, &c. Many of

my new plants are to be seen in their herbals.

After this statement it will be idle to say that my new plants are not well known. Any one can see them or possess them by paying for them. I have in my herbals 1000 N.G. or N.Sp. or very rare plants, to show or sell, already published or to appear in my supplemental Flora.

I have divided my American herbals for my convenience and illustration of botanical Geography, into 5 separate herbals of as many regions, in pink paper 14 inches by 8, according to the natural orders and genera.

1. Alleghany or Atlantic Herbal of plants of the Atlantic states, and mountains from New England to Vir-

ginia, about 2000 species.

2. Florida Herbal of plants of the southern region, extending from Florida to Carolina and Pinebarrens of

New Jersey, about 1500 species.

3. Louisiana Herbal of plants of the Western regions, or the Mississippi and Missouri valleys, from Louisiana and Texas to Illinois and Missouri, about 2000 species.

4. Oregon Herbal of plants of the Oregon mts. from Upper Missouri to the N. W. coast, only 700 sp. with

me as yet.

5. Canada or Boreal Herbal of plants from the Arctic regions, Canada, Labrador. Groenland, and extending south to the great lakes, white mts, and Siberia,

about 1200 species with me.

Many plants are of course common to several of those 5 regions, but each are distinguished by a peculiar vegetation and some botanical features: as Pickering has partly unfolded in his Botanical Geography of North America for 3 at least. Decandolle has also stated that we have 3 botanical regions, the Arctic, U. States and Oregon; out of the 20 of the whole world! Eaton has made only 2, Northern and Southern, but we have 5.

Besides these 5 regular Herbals, I have 12 other Extra Herbals: 1 and 2, N. G. and Sp. of Dicotyle and Monocotyle plants. 3, Grapes of N. America. 4, Trees and Shrubs, Do. 5, A medical Herbal of all our medical plants, with the officinal plants of Europe, Africa,

Asia, &c. 1000 sp. 6, Extra herbals for sale, gigantic size to please those who like those. 7, ditto, good size. 8, ditto, Portable herbal of small plants. 9, ditto, Superb Herbal of beautiful showy flowers and plants, of all parts of the world, 800 sp. 10, Marine Herbal. 11, Diseased plants and monsters. 12, Agricultural herbal.

To show the rich contents of these herbals, it will be sufficient to state that of some genera which I keep together for monographs and peculiar study, I possess N.

American species of

Pyrola, 15 species. Vitis, 36. Gentiana, 20. Prunus, 32. Clintonia, 7. Rosa, 24. Pavia, 7. Viburnum, 22. Tradescantia, 15. Commelina, 10. Lobelia, 18. Anychia, 10. Onoclea, 5. Unisema, 9. Heuchera, 9. Dodecatheon, 8. Iris. 12. Trillium, 25. Mesadenia, 10, Samolus, 5. &c. Viola, 40, &c.

And in the same proportion with many other genera: thus have I increased 50 genera of our Flora, like Fraxinus, Carex, Quercus, Salix, Aster, Ramunculus, &c. have been by others. Whenever one of our plants has been deemed by any botanist similar to a European one, I have tryed to put alongside the European plant, to show the difference or similitude.

Besides these 27 N. American herbals I have 15 for-

eign or Exotic herbals. 1, Of England and France. 2, Alps. 3, Germany, Hungary, and Russia. 4, Italy 5, Greece and Candia. 6, Asiatic herbal and Sicily. of Palestine, Syria, Persia, and Caucasus. 7, Plants of India and China. 8, Polynesian herbal. 9. Herbal of Egypt. 10, Cape of Good Hope. 11, Africa. 12, South America. 13, West Indies. 14, Mexican States. 15, Mosses and confervas of all parts. -Of many of these I have but few species, altogether about 3000.

As I travel every year I hope to add yet many sp. chiefly of the Southern States. I shall perhaps visit

Tennessee, Carolina and Alabama this year.

I offer to sell, buy or exchange such plants or any other. My price for my N. G. and N. Sp. is 8 10. per hundred, the same for gigantic plants. Other American plants at \$5. labelled, or \$4. unlabelled, per 100. Rare plants, at \$6. to 7. Small plants in portable herbals at \$3. to 4. per 100. These prices must be paid here on delivery. If sent abroad or far off 20 per cent. must be added for insurance, packing, trouble and delay.

Of about 225 N. Sp. of exceedingly rare plants, of which I shall publish a list; I have only one specimen left, which I hold at 20 cents each, and even some at 25 cents, and will not even sell unless I know that they shall be deposited in a public or well known herbal,

where they may be seen.

N. American and Mexican plants which I have not, I am willing to buy at the same rate, deducting 20 per cent. for my commission, or more, if unlabelled; I take them in payment of my Atlantic Journal and works,

where my N. G. and Sp. are described.

Exchanges will now be seldom made, unless for plants of new localities or that I have not, which it is impossible to ascertain unless I see them. Whatever will be sent me, will be duly valued, and the equivalent paid in plants asked, or books, or money.

C. S. RAFINESQUE, Prof. No. 59, North Eighth-St.

Philadelphia, April, 1833.

PROFESSOR RAFINESQUE'S

Ichnography and Illustrations of 32 years Travels.

Will be published as soon as 100 subscribers are procured, at 25 cents per plate of 10 to 20 figures. A few plates will be issued on trial, price of separate copies one dollar. These illustrations will contain 1000 figures of new animals and plants, shells and flowers, fishes and trees; plans and views of antiquities, geological maps and sections, ancient monuments, implements, &c. Observed and drawn during 32 years travels in North America and South Europe, the Atlantic Ocean and the Mediterranean.

Subscriptions received by the author and his friends. A fifth copy given to whoever procures four subscribers—the amount will only be

\$ 5. per annum to the subscribers.